Abstract of disclosure:

The method for operating a fuel cell battery (1) comprises an analysis of an integrity state of the battery. This integrity state is determined by means of measurement of operating parameters and a programmed evaluation of the measurement data. The battery is controlled for the purpose of reliable operation in such a manner that the maximum electrical output power is subjected to a limitation which is dependent on the integrity state or an interruption of the operation is initiated. The integrity state can be characterized by at least two parameters, in particular a parameter pair c_j, d_j. From a relationship which contains the parameters an internal electrical resistance (R_i) of the battery can be calculated on the one hand and a statement on the quality of the battery can be derived on the other hand.

(Fig. 2)